

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Handwritten notes: "H 2", "Per 1/17", "02-01"

Application No.: Unknown )  
Filing Date: Unknown )  
Priority Date: 25 May 1999 )  
Applicants: ENTWISTLE, Paul )  
For: DATA TRANSPORT STREAMS )  
PROCESSING )

PRELIMINARY AMENDMENT

Assistant Commissioner For Patents  
Box: New Application  
Washington, D.C. 20231

Dear Sir:

This is a preliminary amendment to the enclosed application entitled "Data Transport Streams Processing". Please amend the specification as follows:

Before the first paragraph on page 1, please insert

~~---CROSS-REFERENCE TO RELATED APPLICATIONS~~

This application claims priority to British Application No. 9911989.3 filed 25 May 1999.

~~BACKGROUND OF THE INVENTION~~

On page 1 before line 27 insert the following heading:

~~---SUMMARY OF THE INVENTION---~~

Page 4 before line 20 insert the following:

~~---BRIEF DESCRIPTION OF THE DRAWINGS---~~

Page 4 before line 22 insert the following:

~~---DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT---~~

In order to comply with the margin requirements, please delete lines 25-34 on Page 6 and lines 1-7 on Page 7 and insert the following:

09578167 052400 004250 29787560

a1

a2

# EXAMPLE DATA STREAMS

Tuner 1 : X1A1 X2V1 X3PS X4A2 X5V2 X3PS X6A3 X7V3 X3PS X1A1 X2V1 X3PS .....  
 Demux to Interleaver : X3PS X3PS X3PS .....  
 Demux to HDD : X1A1 X2V1 X1A1 X2V1 .....  
 Tuner 2 : Y1A1 Y2V1 Y3PS Y4A2 Y5V2 Y3PS Y6A3 Y7V3 Y3PS Y1A1 Y2V1 Y3PS .....  
 Demux to Interleaver : Y3PS Y3PS Y3PS .....  
 Demux to HDD : Y4A2 Y5V2 .....  
 HDD to interleaver : Z1A1 Z2V1 Z1A1 Z2V1 Z1A1 Z2V1 .....  
 Interleaver output : S7A1 S8V1 S3PS S6PS S7A1 S8V1 S3PS S6PS S7A1 S8V1 S3PS S6PS .....

Re-mapping table for use by the interleaver (provided by STB processor):

INPUT TAG : X1 X2 X3 Y4 Y5 Y3 Z1 Z2 .....  
 OUTPUT TAG : S1 S2 S3 S4 S5 S6 S7 S8 .....

Notice that even if the same codes are in the source streams, since the source is known a different mapping can be assigned.

## Nomenclature

X1,X2 ... Packet identification codes for packets sourced from Tuner 1  
 Y1,Y2 ... Packet identification codes for packets sourced from Tuner 2  
 Z1,Z2 ... Packet identification codes for packets sourced from the hard disk drive

A1,A2 ... Audio packet belonging to programme 1,2 ... for the specific tuner  
 V1,V2 ... Video packet belonging to programme 1,2 ... for the specific tuner  
 PS ..... System information packet (eg. SI, PSI, ECM, EMM etc.)

NB: There will be many system information packets each with different packet identification codes and clashing between the two sources, all requiring unique re-mapping. Unlike professional remultiplexing equipment, it is not necessary to adjust the contents of the data packets to reflect the remapping of the packet identifiers. Since the remapping is performed with the knowledge and under control of the STB processor, all necessary information is available to the STB to correctly interpret the packet identifications referred to in the packet data, by reference to the remapping table. This only needs to be done as and when it needs to and not for the entire data stream. It therefore represents a simpler and more cost-effective solution.

Page 7 after line 24 add the following:

While the invention has been described with a certain degree of particularity, it is manifest that many changes may be made in the details of construction and the arrangement of components without departing from the spirit and scope of this disclosure. It is understood that the invention is not limited to the embodiments set forth herein for purposes of exemplification, but is to be limited only by the scope of the of the attached claim or claims, including the full range of equivalency to which each element thereof is entitled.